WHAT IS CLAIMED IS:

- 1. A printer that prints images on a recording medium fed through the printer, comprising:
- a line feeding motor that actuates in predetermined stepped increments;
- a line feeding device driven by the line feeding motor for feeding the recording medium through the printer;
- a print head for printing a image on the recording medium by scanning across the recording medium and ejecting ink from nozzles, the print head having j nozzles spaced at a predetermined pixel resolution that is less than a pixel resolution printed by the printer, j being an integer number; and
- a controller for controlling the line feeding motor to actuate in stepped increments and for controlling a number of the j nozzles utilized in printing the image,

wherein, for each stepped increment of the line feed motor, the line feeding device feeds the recording medium (m \times 1/n) pixels of the print head pixel resolution, where m and n are integer numbers and m is greater than n, and

wherein, the controller controls the j nozzles that print in any one scan of the print head based on the number of increments of the line feed motor.

2. A printer according to Claim 1, wherein m equals 3 and n equals 2.

- 3. A printer according to Claim 2, wherein the increment of the line feed motor corresponds to a line feed of 3 pixels in the pixel resolution printed by the printer.
- 4. A printer according to Claim 2, wherein j equals 304 and the controller controls the 304 nozzles so that 300 or less nozzles print in any one scan of the print head.
- 5. A printer according to Claim 2, wherein j equals 80 and the controller controls the 80 nozzles so that 78 or less nozzles print in any one scan of the print head.
- 6. A printer according to Claim 1, wherein the j nozzles are spaced at a 600 dpi resolution and the printed resolution of the printer is 1200 dpi.
- 7. A printer according to Claim 1, wherein the printed resolution is a maximum printable resolution of the printer.
- 8. A method of feeding a recording medium through a printer for printing images on the recording medium, comprising the steps of:

actuating a line feeding motor in predetermined stepped increments;

feeding the recording medium through the printer by a line feeding device driven by the line feeding motor;

printing a image on the recording medium by a print head scanning across the recording medium and ejecting ink from nozzles, the print head having j nozzles spaced at a predetermined pixel resolution

that is less than a pixel resolution printed by the printer, j being an integer number;

controlling the actuating step to actuate the line feed motor in stepped increments; and controlling a number of the j nozzles utilized in printing the image,

wherein, for each stepped increment of the line feed motor, the line feeding device feeds the recording medium (m \times 1/n) pixels of the print head pixel resolution, where m and n are integer numbers and m is greater than n, and

wherein, the j nozzles that print in any one scan of the print head are controlled based on the number of increments of the line feed motor.

- 9. A method according to Claim 8, wherein m equals 3 and n equals 2.
- 10. A method according to Claim 9, wherein the increment of the line feed motor corresponds to a line feed of 3 pixels in the pixel resolution printed by the printer.
- 11. A method according to Claim 9, wherein j equals 304 and the controller controls the 304 nozzles so that 300 or less nozzles print in any one scan of the print head.
- 12. A method according to Claim 9, wherein j equals 80 and the controller controls the 80 nozzles so that 78 or less nozzles print in any one scan of the print head.

- 13. A method according to Claim 8, wherein the j nozzles are spaced at a 600 dpi resolution and the printed resolution of the printer is 1200 dpi.
- 14. A method according to Claim 8, wherein the printed resolution is a maximum printable resolution of the printer.

T5. Computer executable process steps for feeding a recording medium through a printer for printing images on the recording medium, comprising the steps of:

actuating a line feeding motor in predetermined stepped increments;

feeding the recording medium through the printer by a line feeding device driven by the line feeding motor;

printing a image on the recording medium by a print head scanning across the recording medium and ejecting ink from nozzles, the print head having j nozzles spaced at a predetermined pixel resolution that is less than a pixel resolution printed by the printer, j being an integer number;

controlling the actuating step to actuate the line feed motor in stepped increments; and controlling a number of the j nozzles utilized in printing the image,

wherein, for each stepped increment of the line feed motor, the line feeding device feeds the recording medium (m \times 1/n) pixels of the print head pixel resolution, where m and n are integer numbers and m is greater than n, and

wherein, the j nozzles that print in any one scan of the print head are controlled based on the number of increments of the line feed motor.

- 16. Computer executable process steps according to Claim 15, wherein m equals 3 and n equals 2.
- 17. Computer executable process steps according to Claim 16, wherein the increment of the line feed motor corresponds to a line feed of 3 pixels in a printed pixel resolution.
- 18. Computer executable process steps according to Claim 16, wherein j equals 304 and the controller controls the 304 nozzles so that 300 or less nozzles print in any one scan of the print head.
- 19. Computer executable process steps according to Claim 16, wherein j equals 80 and the controller controls the 80 nozzles so that 78 or less nozzles print in any one scan of the print head.
- 20. Computer executable process steps according to Claim 15, wherein the j nozzles are spaced at a 600 dpi resolution and the printed resolution of the printer is 1200 dpi.
- 21. Computer-executable process steps according to Claim 15, wherein the printed pixel resolution is a maximum printable resolution of the printer.
- 22. A computer-readable medium in which is stored computer executable process steps for feeding a recording medium through a printer for printing

images on the recording medium, the computerexecutable process steps comprising:

actuating a line feeding motor in predetermined stepped increments;

feeding the recording medium through the printer by a line feeding device driven by the line feeding motor;

printing a image on the recording medium by a print head scanning across the recording medium and ejecting ink from nozzles, the print head having j nozzles spaced at a predetermined pixel resolution that is less than a pixel resolution printed by the printer, j being an integer number;

controlling the actuating step to actuate the line feed motor in stepped increments; and controlling a number of the j nozzles utilized in printing the image,

wherein, for each stepped increment of the line feed motor, the line feeding device feeds the recording medium (m \times 1/n) pixels of the print head pixel resolution, where m and n are integer numbers and m is greater than n, and

wherein, the j nozzles that print in any one scan of the print head are controlled based on the number of increments of the line feed motor.

- 23. A computer-readable medium according to Claim 22, wherein m equals 3 and n equals 2.
- 24. A computer-readable medium according to Claim 23, wherein the increment of the line feed motor corresponds to a line feed of 3 pixels in a printed pixel resolution.

- 25. A computer-readable medium according to Claim 23, wherein j equals 304 and the controller controls the 304 nozzles so that 300 or less nozzles print in any one scan of the print head.
- 26. A computer-readable medium according to Claim 23, wherein j equals 80 and the controller controls the 80 nozzles so that 78 or less nozzles print in any one scan of the print head.
- 27. A computer-readable medium according to Claim 22, wherein the j nozzles are spaced at a 600 dpi resolution and the printed resolution of the printer is 1200 dpi.
- 28. A computer-readable medium according to Claim 22, wherein the printed pixel resolution is a maximum printable resolution of the printer.
- 29. A print driver for processing image data to be sent to a printer that prints the image data, the print driver comprising:

performing rasterization, color conversion and halftone processing on the image data;

storing the processed image data in a print buffer for transmission to the printer;

calculating a line skip amount;

calculating a buffer offset amount; and

adjusting a starting position for storing

of the image data in the print buffer based on a

result of the calculated buffer offset amount,

wherein, the line skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

- 30. A print driver according to Claim 29, wherein the printer has a line feed ratio of m x 1/n, where m and n are integer numbers greater than 1, m is greater than n, and the line skip amount and the buffer offset amount are calculated based on the line feed ratio.
- 31. An image processing method for processing image data to be sent to a printer, comprising the steps of:

performing rasterization, color conversion and halftone processing on the image data;

storing the processed image data in a print buffer for transmission to the printer;

calculating a line skip amount;
calculating a buffer offset amount; and
adjusting a starting position for storing
of the image data in the print buffer based on a
result of the calculated buffer offset amount,

wherein, the line skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

32. A method according to Claim 31, wherein the printer has a line feed ratio of m x 1/n, where m and n are integer numbers greater than 1, m is greater than n, and the line skip amount and the buffer offset amount are calculated based on the line feed ratio.

33. Computer-executable process steps for processing image data to be sent to a printer, comprising the steps of:

performing rasterization, color conversion and halftone processing on the image data;

storing the processed image data in a print buffer for transmission to the printer;

calculating a line skip amount;

calculating a buffer offset amount; and

adjusting a starting position for storing

of the image data in the print buffer based on a

result of the calculated buffer offset amount,

wherein, the line skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

- 34. Computer-executable process steps according to Claim 33, wherein the printer has a line feed ratio of m x 1/n, where m and n are integer numbers greater than 1, m is greater than n, and the line skip amount and the buffer offset amount are calculated based on the line feed ratio.
- 35. A computer-readable medium which stores executable process steps for processing image data to be sent to a printer, the executable process steps comprising:

performing rasterization, color conversion and halftone processing on the image data;

storing the processed image data in a print buffer for transmission to the printer;

calculating a line skip amount;

calculating a buffer offset amount; and
adjusting a starting position for storing

of the image data in the print buffer based on a

result of the calculated buffer offset amount,

wherein, the line skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

36. A computer-readable medium according to Claim 35, wherein the printer has a line feed ratio of m x 1/n, where m and n are integer numbers greater than 1, m is greater than n, and the line skip amount and the buffer offset amount are calculated based on the line feed ratio.

37. A print driver for processing image data to be sent to a printer that prints image data on a recording medium at a print pixel resolution greater than a resolution of a print head and feeds the recording medium in units of a feed amount corresponding to (m x 1/n) pixels of the print head resolution, where m and n are integer numbers and m is greater than n, the print driver comprising:

generating a line of image data;

determining whether at least a number of contiguous lines of image data do not include a pixel to be printed, the number of contiguous lines corresponding to the feed amount unit; and

sending line skip amount information to the printer based on a result of the determining step.

38. A print driver according to Claim 37, wherein the determining step comprises:

storing the line of image data in a print buffer for transmission to the printer; and calculating the line skip amount.

39. A print driver according to Claim 38, wherein the determining step further comprises:

calculating a buffer offset amount; and adjusting a starting position for storing the image data in the print buffer based on a result of the calculated buffer offset amount,

wherein, the skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

Computer-executable process steps for processing image data to be sent to a printer that prints image data on a recording medium at a print pixel resolution greater than a resolution of a print head and feeds the recording medium in units of a feed amount corresponding to (m x 1/n) pixels of the print head resolution, where m and n are integer numbers and m is greater than n, the process steps comprising:

generating a line of image data;

determining whether at least a number of contiguous lines of image data do not include a pixel to be printed, the number of contiguous lines corresponding to the feed amount unit; and

sending line skip amount information to the printer based on a result of the determining step.

41. Computer-executable process steps according to Claim 40, wherein the determining step comprises:

storing the line of image data in a print buffer for transmission to the printer; and calculating the line skip amount.

42. Computer-executable process steps according to Claim 41, wherein the determining step further comprises:

calculating a buffer offset amount; and adjusting a starting position for storing the image data in the print buffer based on a result of the calculated buffer offset amount,

wherein, the skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

43. A computer-readable medium on which are stored computer-executable process steps for processing image data to be sent to a printer that prints image data on a recording medium at a print pixel resolution greater than a resolution of a print head and feeds the recording medium in units of a feed amount corresponding to (m x 1/n) pixels of the print head resolution, where m and n are integer numbers and m is greater than n, the process steps comprising:

generating a line of image data;

determining whether at least a number of contiguous lines of image data do not include a pixel to be printed, the number of contiguous lines corresponding to the feed amount unit; and

sending line skip amount information to the printer based on a result of the determining step.

44. A computer-readable medium according to Claim 43, wherein the determining step comprises: storing the line of image data in a print buffer for transmission to the printer; and calculating the line skip amount.

45. A computer-readable medium according to Claim 44, wherein the determining step further comprises:

calculating a buffer offset amount; and adjusting a starting position for storing the image data in the print buffer based on a result of the calculated buffer offset amount,

wherein, the skip amount and the buffer offset amount are calculated in a case where a first line of image data to be stored in the print buffer is white data.

46. A printer that prints images on a recording medium fed through the printer, comprising:

a line feeding motor that actuates in stepped increments;

a line feeding device driven by the line feeding motor for feeding the recording medium through the printer; and

a print head mounted for banded printing across the recording medium, the print head having nozzles spaced for printing at a first print resolution,

wherein, one increment of the line feed motor results in a feed amount of m/n times the print head nozzle spacing, where m/n is greater than 1, and m and n are integer values where m is greater than n, and

wherein, to print the image, the recording medium line feed motor is actuated n increments, or an integer multiple of n increments between bands.

47. A printer according to Claim 46, wherein m equals 3 and n equals 2.

- 48. A printer according to Claim 46, wherein less than all of the nozzles of the print head are utilized in printing the image in any one band and a number of the nozzles utilized is related to m/n.
- 49. A printer according to Claim 48, wherein the print head comprises 304 nozzles and 300 or less nozzles are utilized in printing any one band.
- 50. A printer according to Claim 48, wherein the print head comprises 80 nozzles and 78 or less nozzles are utilized in printing any one band.
- 51. A printer according to Claim 46, wherein the first resolution corresponding to the nozzle spacing is 600 dpi.
- 52. A printer according to Claim 46, wherein the first resolution corresponding to the nozzle spacing is 600 dpi, m equals 3 and n equals 2.

53. A method of feeding a recording medium through a printer for printing images on the recording medium, comprising the steps of:

actuating a line feeding motor in stepped increments:

feeding the recording medium through the printer by a line feeding device driven by the line feeding motor; and

performing banded printing of an image on the recording medium by a print head scanning across



the recording medium, the print head having nozzles spaced at a first resolution,

wherein, one increment of the line feeding motor results in a feed amount of m/n times the print head nozzle spacing, where m/n is greater than 1, and m and n are integer values where m is greater than n, and

wherein, to print the image, the line feeding motor is actuated n increments, or an integer multiple of n increments between bands.

- 54. A method according to Claim 53, wherein m equals 3 and n equals 2.
- 55. A method according to Claim 53, wherein less than all of the nozzles of the print head are utilized in printing the image in any one band and a number of the nozzles utilized is related to m/n.
- 56. A method according to Claim 55, wherein the print head comprises 304 nozzles and 300 or less nozzles are utilized in printing any one band.
- 57. A method according to Claim 55, wherein the print head comprises 80 nozzles and 78 or less nozzles are utilized in printing any one band.
- 58. A method according to Claim 53, wherein the first resolution corresponding to the nozzle spacing is 600 dpi.

59. A method according to Claim 53, wherein the first resolution corresponding to the nozzle spacing is 600 dpi, m equals 3 and n equals 2.

60. Computer-executable process steps for feeding a recording medium through a printer for printing images on the recording medium, comprising the steps of:

actuating a line feeding motor in stepped increments:

feeding the recording medium through the printer by a line feeding device driven by the line feeding motor; and

performing banded printing of an image on the recording medium by a print head scanning across the recording medium, the print head having nozzles spaced at a first resolution,

wherein, one increment of the line feeding motor results in a feed amount of m/n times the print head nozzle spacing, where m/n is greater than 1, and m and n are integer values where m is greater than n, and

wherein, to print the image, the line feeding motor is actuated n increments, or an integer multiple of n increments between bands.

- 61. Computer-executable process steps according to Claim 60, wherein m equals 3 and \dot{n} equals 2.
- 62. Computer-executable process steps according to Claim 60, wherein less than all of the nozzles of the print head are utilized in printing

the image in any one band and a number of the nozzles utilized is related to m/n.

- 63. Computer-executable process steps according to Claim 62, wherein the print head comprises 304 nozzles and 300 or less nozzles are utilized in printing any one band.
- 64. Computer-executable process steps according to Claim 62, wherein the print head comprises 80 nozzles and 78 or less nozzles are utilized in printing any one band.
- 65. Computer-executable process steps according to Claim 60, wherein the first resolution corresponding to the nozzle spacing is 600 dpi.
- 66. Computer-executable process steps according to Claim 60, wherein the first resolution corresponding to the nozzle spacing is 600 dpi, m equals 3 and n equals 2.

67. A computer-readable medium on which is stored computer-executable process steps for feeding a recording medium through a printer for printing images on the recording medium, the computer-executable process steps comprising:

actuating a line feeding motor in stepped increments:

feeding the recording medium through the printer by a line feeding device driven by the line feeding motor; and

performing banded printing of an image on the recording medium by a print head scanning across

the recording medium, the print head having nozzles spaced at a first resolution,

wherein, one increment of the line feeding motor results in a feed amount of m/n times the print head nozzle spacing, where m/n is greater than 1, and m and n are integer values where m is greater than n, and

wherein, to print the image, the line feeding motor is actuated n increments, or an integer multiple of n increments between bands.

- 68. A computer-readable medium according to Claim 67, wherein m equals 3 and n equals 2.
- 69. A computer-readable medium according to Claim 67, wherein less than all of the nozzles of the print head are utilized in printing the image in any one band and a number of the nozzles utilized is related to m/n.
- 70. A computer-readable medium according to Claim 69, wherein the print head comprises 304 nozzles and 300 or less nozzles are utilized in printing any one band.
- 71. A computer-readable medium according to Claim 69, wherein the print head comprises 80 nozzles and 78 or less nozzles are utilized in printing any one band.
- 72. A computer-readable medium according to Claim 67, wherein the first resolution corresponding to the nozzle spacing is 600 dpi.

73. A computer-readable medium according to Claim 67, wherein the first resolution corresponding to the nozzle spacing is 600 dpi, m equals 3 and n equals 2.